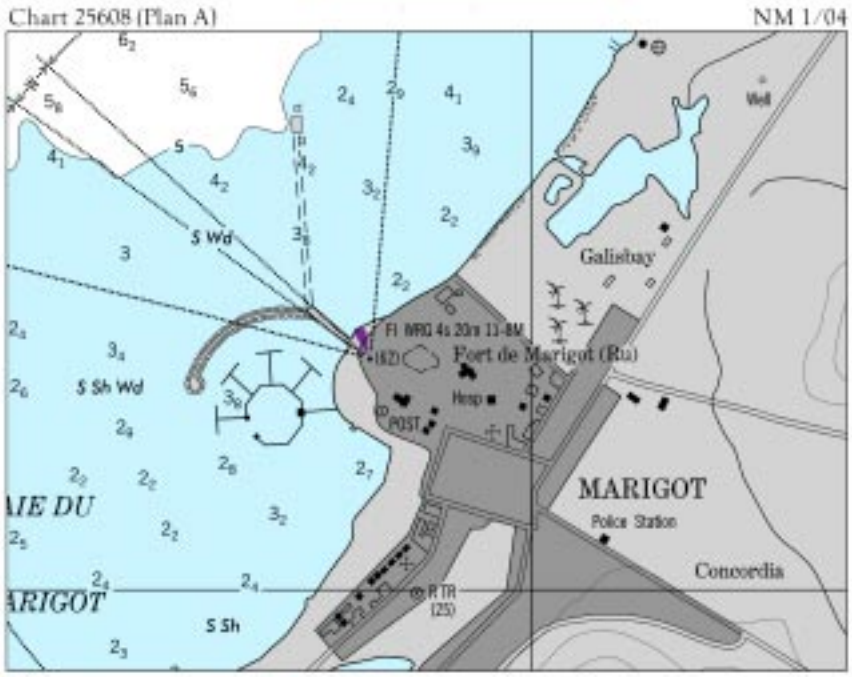
Chart 25608 (Plan A)
NM 1/04
5 Wd
Fl WRG 4s 20m 11-8M
(82)
Fort de Marigot (Ru)
Galisbay
Well
Hosp
POST
5 Sh Wd
MARIGOT
Police Station
Concordia
RTR
(25)
5 Sh

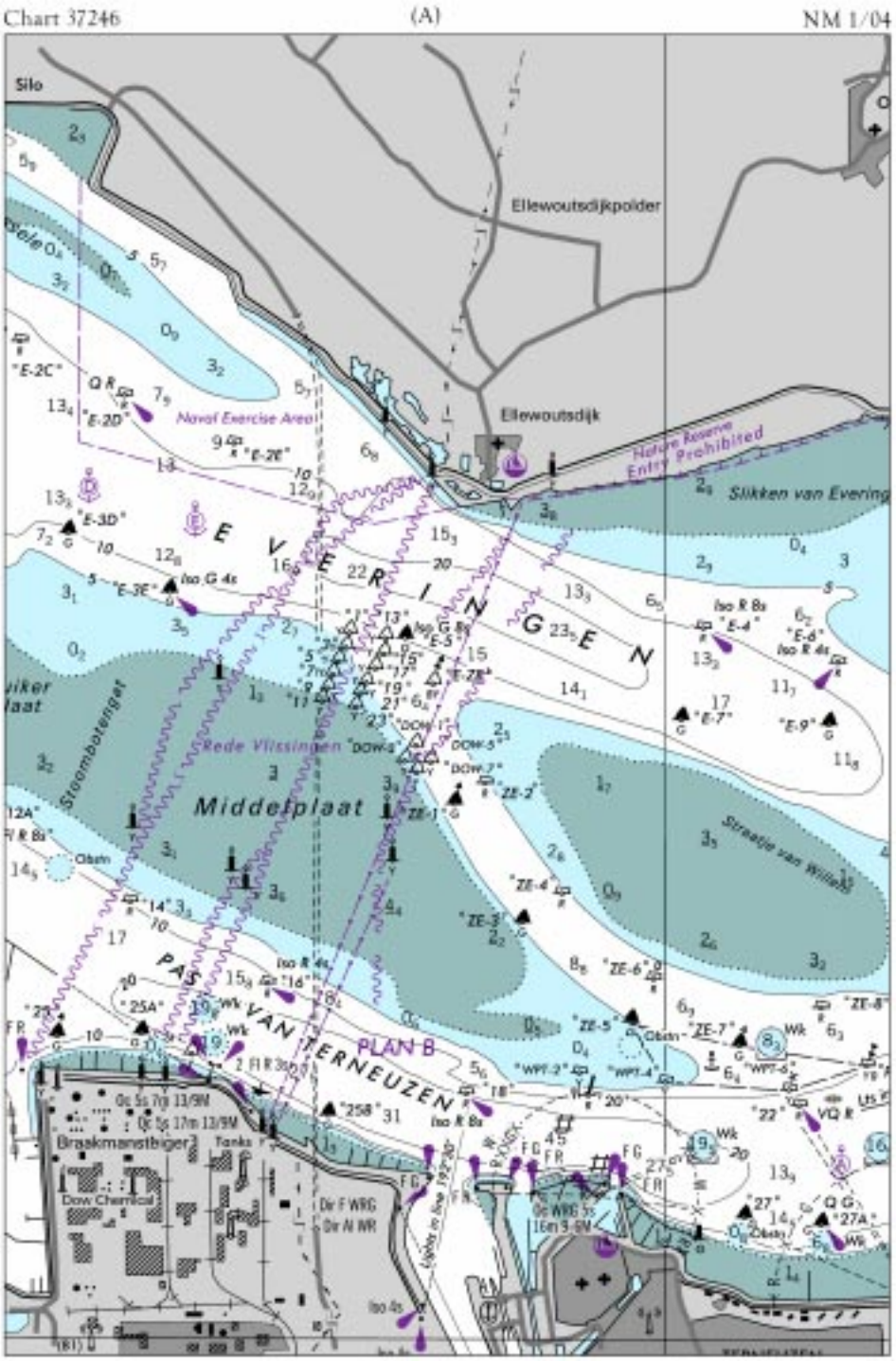
Chart 37246
(A)
NM 1/04
Silo
Ellewoutsdijkpolder
Ellewoutsdijk
Naval Exercise Area
Nature Reserve Entry Prohibited
Slikken van Evering
E V E R I N G E N
Middelplaat
Rede Vlissingen
Stroombatengat
Straatje van Willebrordus
PAS VAN TERNEUZEN
PLAN B
Braakmanstbiger
Dow Chemical
Tanks

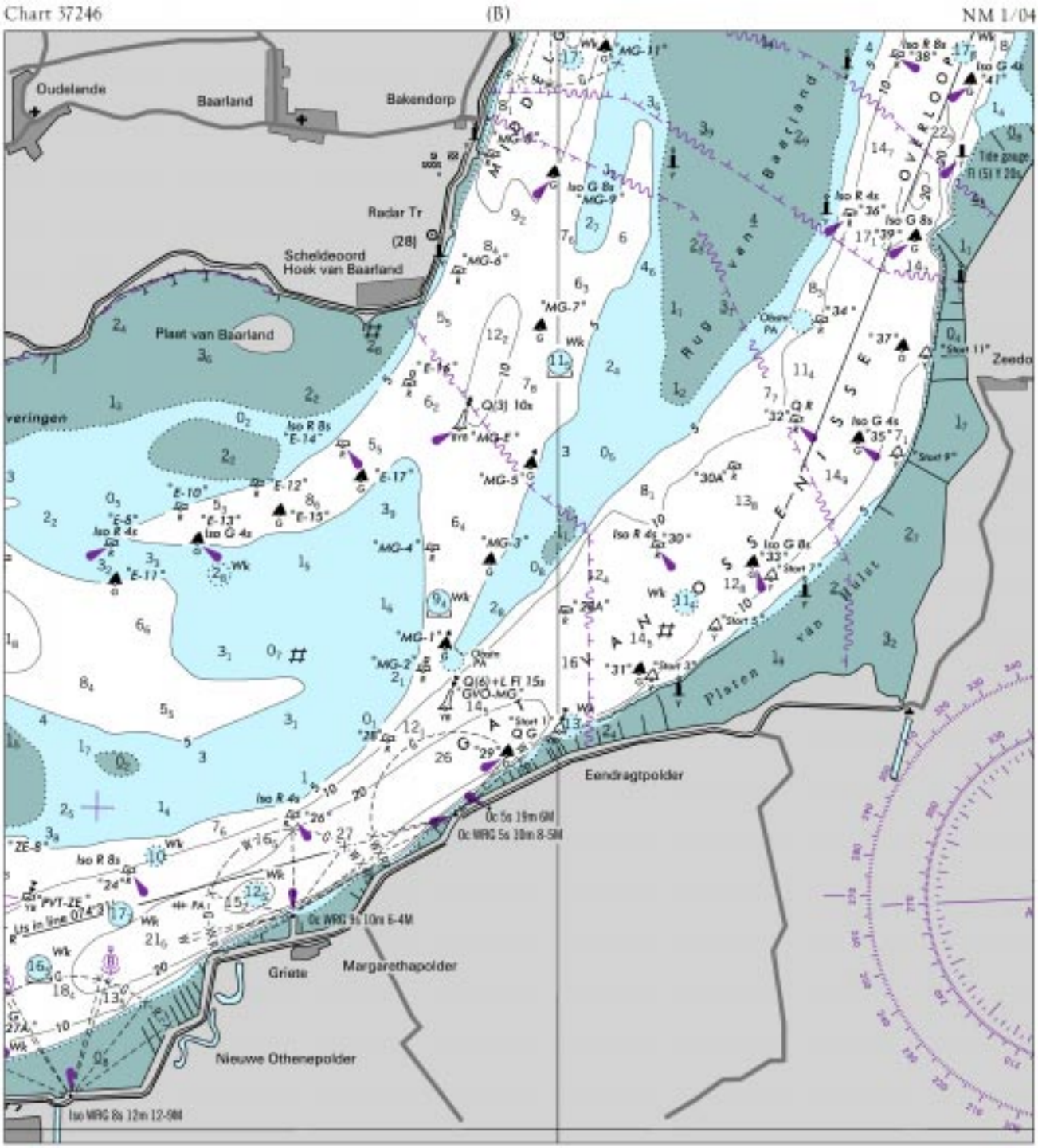
Chart 37246
(B)
NM 1/04
Oudelande
Baarland
Bakendorp
Radar Tr
(28)
Scheldeoord
Hoek van Baarland
Plaat van Baarland
Rug van Baarland
Overloop van Baarland
Zeedo
Eendragtpolder
Griete
Margarethapolder
Nieuwe Othenepolder
Iso WRG 8s 12m 12-9M
Oc 5s 19m 6M
Oc WRG 5s 10m 8-5M
Oc WRG 3s 10m 6-4M
Tide gauge
Fl (5) Y 20s

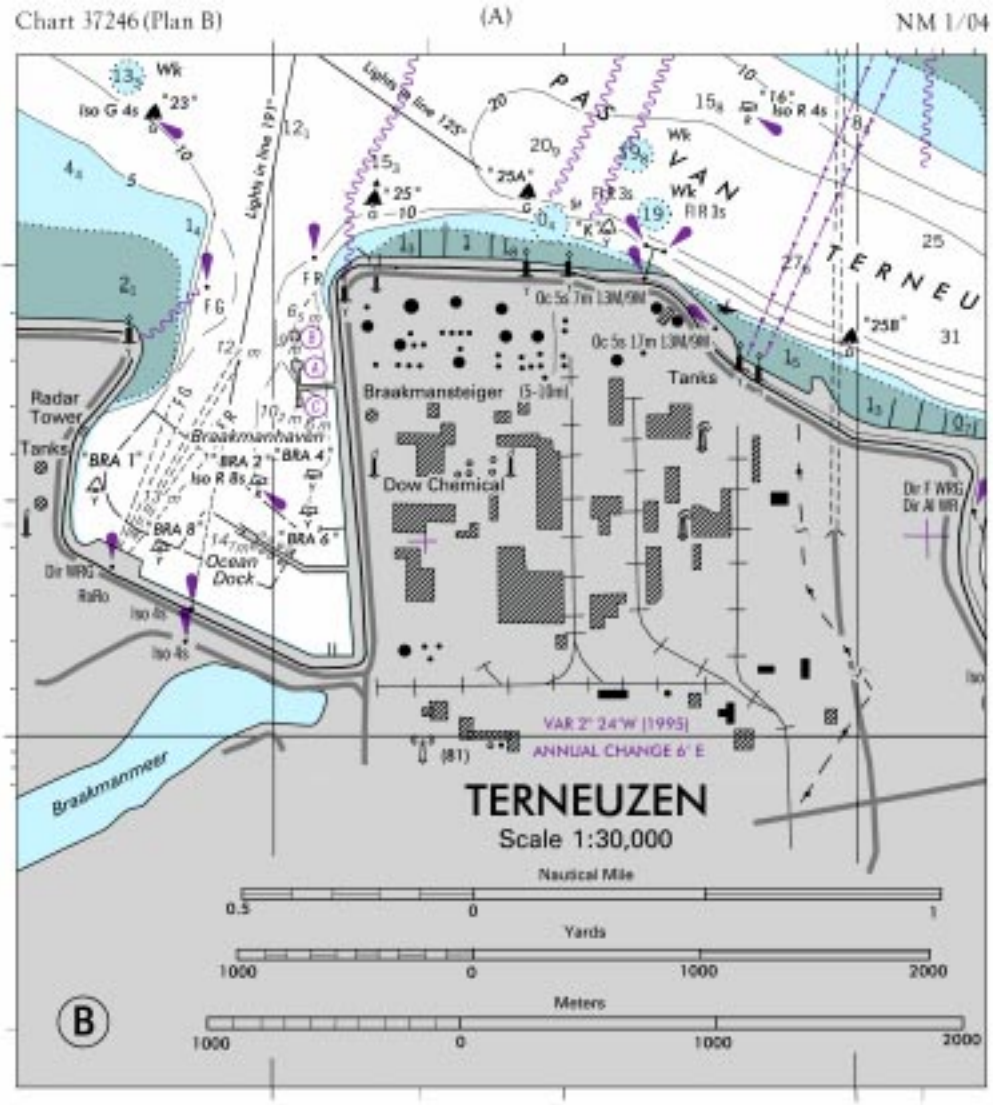
Chart 37246 (Plan B)
(A)
NM 1/04
Wk
Iso G 4s
"23"
Lights in line 191°
Lights in line 125°
PAS VAN
"25A"
Wk
RR 3s
"16"
Iso R 4s
"25"
TERNEU
"25B"
Tanks
Radar Tower
Tanks
Braakmanhaven
BRA 1"
BRA 2"
Iso R 8s
BRA 4"
BRA 6"
BRA 8"
Ocean Dock
Dir WRG
RoRo
Iso 4s
Iso 4s
Braakmansteiger (5-10m)
Dow Chemical
Oc 5s 17m L3M/9M
Oc 5s 17m L3M/9M
Tanks
Dir F WRG
Dir Al WR
VAR 2° 24'W (1995)
ANNUAL CHANGE 6' E
(81)
Braakmanmeer
TERNEUZEN
Scale 1:30,000
Nautical Mile
0.5
0
1
Yards
1000
0
1000
2000
Meters
1000
0
1000
2000
B

Chart 37246 (Plan B) (B) NM 1/04

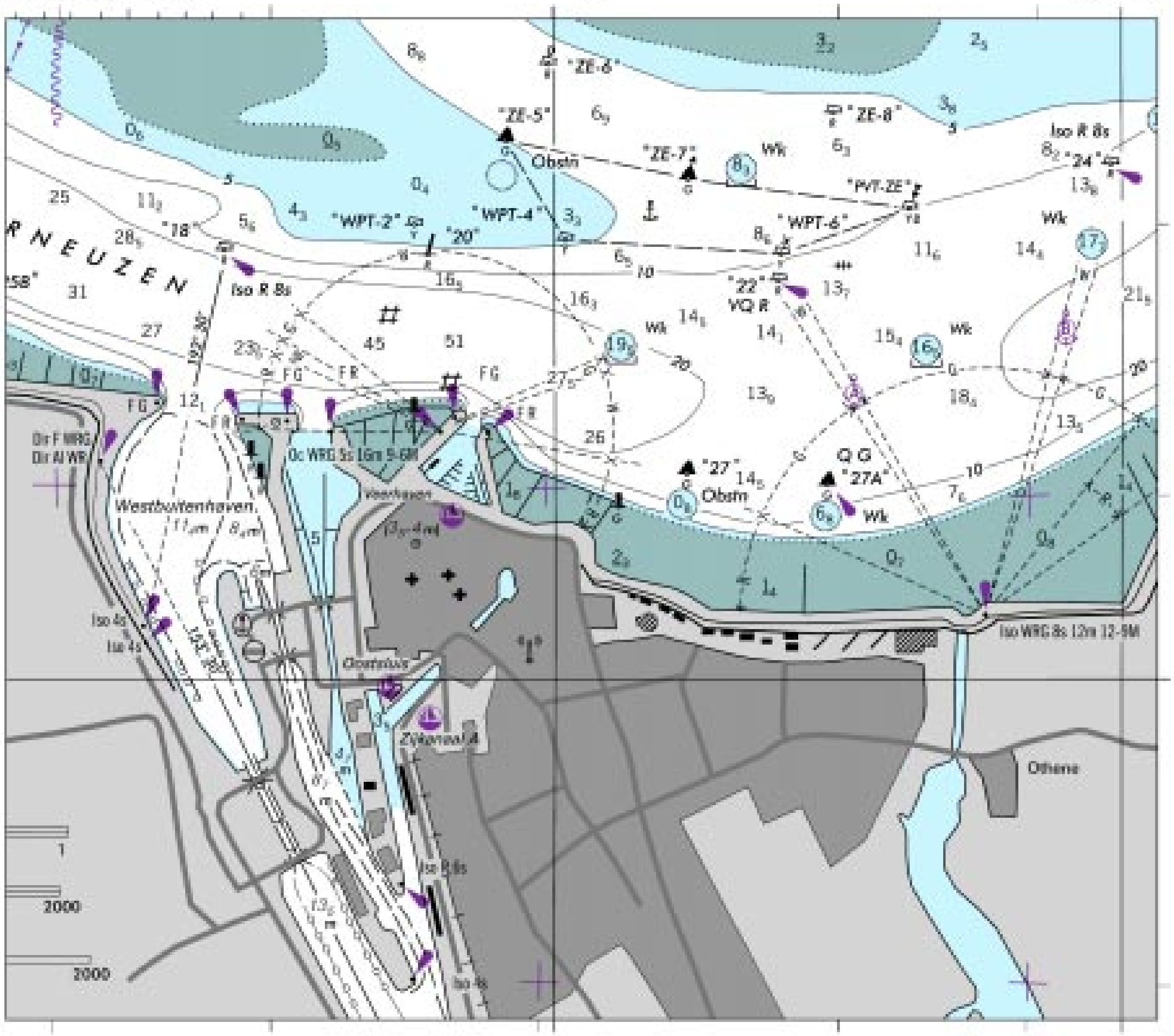

Chart 11301 NM 1/04

BROWNSVILLE AND PORT ISABEL HARBORS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BRAZOS SANTIAGO PASS:							
ENTRANCE CHANNEL	46.0	46.0	46.0	12-02	300	1.7	44
LAGUNA MADRE CHANNEL	33.0	37.0	33.0	9-03	250	2.5	42
BROWNSVILLE SHIP CHANNEL:							
JUNCTION BASIN TO BOCA CHICA PASSING BASIN	44.0	44.0	44.0	12-02	250	3.5	42
BOCA CHICA PASSING BASIN TO GOOSE I. PASSING BASIN	44.0	44.0	44.0	12-02	250	4.7	42
GOOSE I. PASSING BASIN TO BROWNSVILLE TURNING BASIN	41.0	43.0	43.0	7-03	300	2.4	42
BROWNSVILLE TURNING BASIN	31.0	37.0	35.0	12-01; 12-02	500-1200	1.7	42-36
PORT ISABEL CHANNEL:							
JUNCTION TO TURNING BASIN (INCLUDING WIDENER AT JUNCTION)	36.0	36.0	34.0	2-02	200	1.0	36
PORT ISABEL TURNING BASIN	35.0	35.0	34.0	2-02	1000	0.2	36
CUT OFF CHANNEL	36.0	36.0	36.0	2-02	200	0.9	36

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11302 (Side B) NM 1/04

BROWNSVILLE AND PORT ISABEL HARBORS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BRAZOS SANTIAGO PASS:							
ENTRANCE CHANNEL	46.0	46.0	46.0	12-02	300	1.7	44
LAGUNA MADRE CHANNEL	33.0	37.0	33.0	9-03	250	2.5	42
BROWNSVILLE SHIP CHANNEL:							
JUNCTION BASIN TO BOCA CHICA PASSING BASIN	44.0	44.0	44.0	12-02	250	3.5	42
BOCA CHICA PASSING BASIN TO GOOSE I. PASSING BASIN	44.0	44.0	44.0	12-02	250	4.7	42
GOOSE I. PASSING BASIN TO BROWNSVILLE TURNING BASIN	41.0	43.0	43.0	7-03	300	2.4	42
BROWNSVILLE TURNING BASIN	31.0	37.0	35.0	12-01; 12-02	500-1200	1.7	42-36
PORT ISABEL CHANNEL:							
JUNCTION TO TURNING BASIN (INCLUDING WIDENER AT JUNCTION)	36.0	36.0	34.0	2-02	200	1.0	36
PORT ISABEL TURNING BASIN	35.0	35.0	34.0	2-02	1000	0.2	36
CUT OFF CHANNEL	36.0	36.0	36.0	2-02	200	0.9	36

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11305 NM N1/04

CORPUS CHRISTI CHANNEL DEPTHS
Tabulated from surveys by the Corps of Engineers - Report of November 2003

Name of channel	Controlling depths from seaward in feet at mean lower low water (MLLW)					Project Dimensions		
	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter	Date of Survey	Width (Feet)	Length (Nautical Miles)	Depth MLLW (Feet)
Aransas Pass Outer Bar	45	47	47	44	1-03	700-600	2.42	47
Jetty Channel to Cline Point	49	46	45	43	8-03	600	1.11	47-45
Inner Basin of Harbor Island	45	49	47	46	8-03	600-1559	0.5	45
Cline Point to West End Humble Oil Co. Basin	52	56	56	53	8-03	600	0.5	45
Thence to Corpus Christi	35	42	45	40	2-02; 1-03	600-300	17.9	45
Channel to La Quinta	43	43	44	38	6-02	300-400	4.7	45

NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11309 NM 1/04

CORPUS CHRISTI CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ARANSAS PASS OUTER BAR	45.0	47.0	47.0	44.0	1-03	700-600	2.42	47
JETTY CHANNEL TO CLINE POINT	49.0	46.0	45.0	43.0	8-03	600	1.11	47-45
INNER BASIN AT HARBOR ISLAND	45.0	49.0	47.0	46.0	8-03	600-1559	0.5	45
CLINE POINT TO WEST END HUMBLE OIL CO. BASIN	52.0	56.0	56.0	53.0	8-03	600	0.5	45
THENCE TO CORPUS CHRISTI	35.0	42.0	45.0	40.0	2/02-1/03	600-300	17.9	45
CHANNEL TO LA QUINTA	43.0	43.0	44.0	38.0	6-02	300-400	4.7	45
TURNING BASIN	43.0	43.0	45.0	46.0	6-02	1200	.30	45

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11310 NM N1/04

CORPUS CHRISTI CHANNEL DEPTHS
Tabulated from surveys by the Corps of Engineers - Report of November 2003

Name of channel	Controlling depths from seaward in feet at mean lower low water (MLLW)					Project Dimensions		
	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter	Date of Survey	Width (Feet)	Length (Nautical Miles)	Depth MLLW (Feet)
Aransas Pass Outer Bar	45	47	47	44	1-03	700-600	2.42	47
Jetty Channel to Cline Point	49	46	45	43	8-03	600	1.11	47-45
Inner Basin of Harbor Island	45	49	47	46	8-03	600-1559	0.5	45
Cline Point to West End Humble Oil Co. Basin	52	56	56	53	8-03	600	0.5	45
Thence to Corpus Christi	35	42	45	40	2-02; 1-03	600-300	17.9	45
Channel to La Quinta	43	43	44	38	6-02	300-400	4.7	45

NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11311 NM 1/04

CORPUS CHRISTI CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
WEST END OF HUMBLE OIL CO.								
BASIN TO CORPUS CHRISTI	35.0	42.0	45.0	40.0	2/02-1/03	600-300	17.9	45
CORPUS CHRISTI:								
TURNING BASIN	43.0	46.0	46.0	40.0	2-02	300-800	1.1	45
INDUSTRIAL CANAL	42.0	44.0	46.0	43.0	2-02	400	0.5	45
AVERY POINT								
TURNING BASIN	41.0	44.0	44.0	41.0	2-02	400-975	0.4	45
CHEMICAL TURNING BASIN	40.0	46.0	44.0	40.0	2-02	400-1200	0.4	45
TULE LAKE CHANNEL	35.0	46.0	44.0	37.0	5-02	200-400	3.3	45
TULE LAKE TURNING BASIN	43.0	44.0	45.0	40.0	2-02	1200-300	0.4	45
CHANNEL TO VIOLA	45.0	46.0	45.0	40.0	2-02	300-200	1.5	45
VIOLA TURNING BASIN	42.0	46.0	45.0	40.0	2-02	700-900	0.3	45

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11312 NM 1/04

CORPUS CHRISTI CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ARANSAS PASS OUTER BAR	45.0	47.0	47.0	44.0	1-03	700-600	2.42	47
JETTY CHANNEL TO CLINE POINT	49.0	46.0	45.0	43.0	8-03	600	1.11	47-45
INNER BASIN AT HARBOR ISLAND	45.0	49.0	47.0	46.0	8-03	600-1559	0.5	45
CLINE POINT TO WEST END								
HUMBLE OIL CO. BASIN	52.0	56.0	56.0	53.0	8-03	600	0.5	45
THENCE TO CORPUS CHRISTI	35.0	42.0	45.0	40.0	2/02-1/03	600-300	17.9	45
CHANNEL TO LA QUINTA	43.0	43.0	44.0	38.0	6-02	300-400	4.7	45

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11316 NM 1/04

MATAGORDA SHIP CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SEA BAR AND JETTY CHANNEL	39.0	39.0	39.0	2-03	300	3.21	38
THENCE TO LIGHT 48	30.0	34.0	30.0	3-03	300-200	10.84	36
THENCE TO LIGHT 76	28.0	29.0	26.0	2-03	200	7.42	36
THENCE TO POINT							
COMFORT TURNING BASIN	28.0	29.0	26.0	3-03	200-399	0.98	36
TURNING BASIN	32.0	33.0	32.0	3-03	1000	0.17	36

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11317 NM 1/04

MATAGORDA SHIP CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SEA BAR AND JETTY CHANNEL	39.0	39.0	39.0	2-03	300	3.21	38
THENCE TO LIGHT 48	30.0	34.0	30.0	3-03	300-200	10.84	36
THENCE TO LIGHT 76	28.0	29.0	26.0	2-02	200	7.42	36
THENCE TO POINT COMFORT TURNING BASIN	28.0	29.0	26.0	3-03	200-399	0.98	36
TURNING BASIN	32.0	33.0	32.0	3-03	1000	0.17	36

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11318 NM N1/04

CORPUS CHRISTI CHANNEL DEPTHS
Tabulated from surveys by the Corps of Engineers - Report of November 2002

Controlling depths from seaward in feet at mean lower low water (MLLW)						Project Dimensions		
Name of channel	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter	Date of Survey	Width (Feet)	Length (Nautical Miles)	Depth MLLW (Feet)
Avery Point Turning Basin	41	44	44	41	2-02	400-975	0.4	45
Industrial Canal	42	44	46	43	2-02	400	0.5	45
Corpus Christi Turning Basin	43	46	46	40	2-02	300-800	1.1	45
Corpus Christi Channel	35	42	45	40	2-02; 1-03	600-300	17.9	45
La Quinta Channel	43	43	44	38	6-02	300-400	4.7	45
La Quinta Turning Basin	43	43	45	46	6-02	1200	0.3	45

NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11322 (Side B) NM 1/04

FREEPORT HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CHANNEL FROM DEEP WATER TO SEAWARD END OF JETTY	49.0	50.0	49.0	10-03	400	3.7	47
JETTY CHANNEL	44.0	46.0	41.0	10-03	400	1.2	45
LOWER TURNING BASIN	43.0	48.0	39.0	10-03	750	0.9	45
THENCE TO BRAZOSPORT TURNING BASIN	44.0	47.0	45.0	7-03	400-600	0.4	45
BRAZOSPORT TURNING BASIN	44.0	47.0	46.0	7-03	500-1000	0.2	45
CHANNEL TO UPPER TURNING BASIN	45.0	48.0	47.0	7-03	280-470	0.9	45
BRAZOS HARBOR APPROACH CHANNEL	39.0	41.0	40.0	1-03	200-650	0.5	36
BRAZOS HARBOR TURNING BASIN	36.0	38.0	40.0	1-03	750	0.1	36
UPPER TURNING BASIN	46.0	48.0	48.0	7-03	600-1190	0.2	45
CHANNEL TO STAUFFER TURNING BASIN	17.0	19.0	17.5	11-88	200	1.0	25
STAUFFER TURNING BASIN	18.0	18.0	16.0	11-88	500	0.1	25

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11324 NM 1/04

GALVESTON BAY AND HOUSTON SHIP CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
GALVESTON HARBOR:								
ENTRANCE CHANNEL	46.0	46.0	46.0	44.0	7-03	800-1000	7.5	45
OUTER BAR CHANNEL	36.0	43.0	47.0	47.0	7-03	800	1.5	45
INNER BAR CHANNEL	37.0	42.0	43.0	34.0	7-03	800	2.9	45
BOLIVAR ROADS CHANNEL	48.0	48.0	46.0	41.0	9-02	800	0.7	45
HOUSTON SHIP CHANNEL:								
BOLIVAR ROADS TO LOWER END OF MORGAN PT.	36.0	41.0	39.0	33.0	10/02-10/03	400-530	23.4	40
GALVESTON CHANNEL	30.0	36.0	31.0	21.0	7-03	1125-1075	3.5	40
TEXAS CITY CHANNEL	38.0	41.0	44.0	41.0	10-03	400	5.9	40
TEXAS CITY TURNING BASIN	37.0	37.0	37.0	37.0	10-03	1200	0.5	40

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11325 NM 1/04

HOUSTON SHIP CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT).					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HOUSTON SHIP CHANNEL:								
EXXON OIL CO. SLIP TO CARPENTERS BAYOU (A)	32.0	36.0	42.0	34.0	7-03	400-525	4.90	40
THENCE TO GREENS BAYOU (B)	43.0	41.0	40.0	41.0	7-03	400-300	4.70	40
GREENS BAYOU CHANNEL (TO FIRST BEND)	39.0	42.0	44.0	42.0	4-02	500-175	0.34	36
THENCE TO HUNTING BAYOU (UPPER BEND)	37.0	41.0	42.0	39.0	9-03	300	1.91	40
TURNING POINT AT HUNTING BAYOU	39.0	41.0	41.0	38.0	9-03	600	0.17	40
THENCE TO SOUTHERN PACIFIC SLIP	37.0	40.0	41.0	37.0	9-03	300	3.04	40
TURNING POINT AT SIMS BAYOU	40.0	41.0	41.0	40.0	9-03	700	0.26	40
THENCE TO HOUSTON TURNING BASIN WHARF 15	39.0	42.0	41.0	37.0	9-03	300	2.69	36
TURNING POINT AT BRADY ISLAND	31.0	37.0	39.0	39.0	7-03	422	0.17	36
HOUSTON TURNING BASIN	36.0	35.0	37.0	35.0	7-02	250-1000	0.70	36
UPPER TURNING BASIN	19.0	23.0	19.0	18.0	7-03	150	0.23	36

A. CHANNEL WIDENS 125 FEET IN LEFT OUTSIDE QUARTER IN VICINITY OF EXXON OIL CO.

B. CHANNEL NARROWS IN VICINITY OF THE SHELL OIL CO. SLIP.

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11327 NM 1/04

HOUSTON SHIP CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BOLIVAR ROADS TO LOWER END OF MORGAN POINT	36.0	41.0	39.0	33.0	10/02-10/03	400-530	23.4	40

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11328 NM 1/04

HOUSTON SHIP CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BOLIVAR ROADS TO LOWER END OF MORGAN POINT	36.0	41.0	39.0	33.0	10/02-10/03	400-530	23.4	40
LOWER END OF MORGAN PT. TO EXXON OIL CO. SLIP	36.0	40.0	36.0	32.0	7-03	400-525	4.2	40

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11332 NM 1/04

SABINE PASS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE BANK CHANNEL	40	45	40	38	7-03	800	12.8	42
OUTER BAR CHANNEL	42	42	42	42	9-03	800	3.0	42
JETTY CHANNEL	36	42	42	31	7-03	800-500	3.5	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11341 NM 1/04

SABINE PASS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE BANK CHANNEL	40	45	40	38	7-03	800	12.8	42
OUTER BAR CHANNEL	42	42	42	42	9-03	800	3.0	42
JETTY CHANNEL	36	42	42	31	7-03	800-500	3.5	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11342 NM 1/04

SABINE PASS - SABINE - NECHES CANAL CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE PASS:								
OUTER BAR CHANNEL	42	42	42	42	9-03	800	3.0	42
JETTY CHANNEL	36	42	42	31	7-03	800-500	3.5	40
PASS CHANNEL	24	28	41	27	7-03	500-1150	4.9	40
ANCHORAGE BASIN	33	21	11	1	2-03	1500	0.5	40
PORT ARTHUR SHIP CANAL	36	41	39	35	7-03	500	4.8	40
JUNCTION PORT ARTHUR-SABINE NECHES CANALS	32	36	33	35	10-03	400-1200	1.1	40
ENTRANCE TO PORT ARTHUR TURNING BASINS	36	38	38	36	10-03	282-735	0.2	40
EAST TURNING BASIN	40	40	40	41	8-03	370-547	0.3	40
WEST TURNING BASIN	38	38	39	38	10-03	350-735	0.3	40
CHANNEL CONNECTING WEST BASIN AND TAYLOR BAYOU TURNING BASIN	38	42	41	40	8-03	200-350	0.5	40
TAYLOR BAYOU TURNING BASIN	23	26	30	31	8-03	90-1233	0.6	40
SABINE-NECHES CANAL:								
PORT ARTHUR TO NECHES RIVER	28	37	35	28	7-03	400	9.6	40
NECHES RIVER TO SABINE RIVER	24	26	27	25	7-03	200	3.9	30

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11353 NM 1/04

MISSISSIPPI RIVER - GULF OUTLET CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2003

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			WIDTH (FEET)	DATE OF SURVEY
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER		
LT. BUOY 1 (29°25'27"N, 88°59'31"W) TO LT. BUOY 20	38.0	38.0	34.0	600	7,10-03
THENCE TO END OF JETTY OPPOSITE LIGHT 62	28.0	34.0	26.0	500	6,7,8,10-03

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 11363 NM 1/04

MISSISSIPPI RIVER - GULF OUTLET CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2003

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			WIDTH (FEET)	DATE OF SURVEY
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER		
LT. BUOY 1 (29°25'27"N, 88°59'31"W) TO LT. BUOY 20	38.0	38.0	34.0	600	7,10-03
THENCE TO END OF JETTY OPPOSITE LIGHT 62	28.0	34.0	26.0	500	6,7,8,10-03
THENCE TO INTERSECTION WITH G. I. W. W.	26.0	32.0	22.0	500	6,7,8,9-03
THENCE TO INNER HARBOR NAVIGATION CANAL	26.0	28.0	29.0	500	8,9-03

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 11364 NM 1/04

MISSISSIPPI RIVER - GULF OUTLET CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)

NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	WIDTH (FEET)	DATE OF SURVEY
LT. BUOY 1 (29°25'27"N, 88°59'31"W) TO LT. BUOY 20	38.0	38.0	34.0	600	7,10-03
THENCE TO END OF JETTY OPPOSITE LIGHT 62	28.0	34.0	26.0	500	6,7,8,10-03
THENCE TO INTERSECTION WITH G. I. W. W.	26.0	32.0	22.0	500	6,7,8,9-03
THENCE TO INNER HARBOR NAVIGATION CANAL	26.0	28.0	29.0	500	8,9-03

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 11369 NM 1/04

MISSISSIPPI RIVER - GULF OUTLET CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)

NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	WIDTH (FEET)	DATE OF SURVEY
LT. BUOY 1 (29°25'27"N, 88°59'31"W) TO LT. BUOY 20	38.0	38.0	34.0	600	7,10-03
THENCE TO END OF JETTY OPPOSITE LIGHT 62	28.0	34.0	26.0	500	6,7,8,10-03
THENCE TO INTERSECTION WITH G. I. W. W.	26.0	32.0	22.0	500	6,7,8,9-03
THENCE TO INNER HARBOR NAVIGATION CANAL	26.0	28.0	29.0	500	8,9-03

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 11545 NM 1/04

MOREHEAD CITY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2003

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BEAUFORT INLET CHANNEL FROM 2000 FT NORTH OF LTD. BUOY "8"	39.7	45.1	40.4	27.1	10-03	450-800	2.26	47
CUTOFF CHANNEL	47.8	49.4	47.0	39.1	10-03	600	0.38	42
MOREHEAD CITY CHANNEL	33.4	42.5	42.2	37.9	6-03	400	1.10	40
TURNING BASIN								
EAST LEG	43.4	42.4	43.4	40.5	6-03	400-870	0.78	40
WEST LEG	33.7	36.0	37.2	39.9	6-03	800-3000	0.59	35

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11547 NM 1/04

MOREHEAD CITY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2003

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BEAUFORT INLET CHANNEL FROM								
2000 FT NORTH OF LTD. BUOY "8"	39.7	45.1	40.4	27.1	10-03	450-800	2.26	47
CUTOFF CHANNEL	47.8	49.4	47.0	39.1	10-03	600	0.38	42
MOREHEAD CITY CHANNEL	33.4	42.5	42.2	37.9	6-03	400	1.10	40
TURNING BASIN								
EAST LEG	43.4	42.4	43.4	40.5	6-03	400-870	0.78	40
WEST LEG	33.7	36.0	37.2	39.9	6-03	800-3000	0.59	35

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12311 NM 1/04

CHRISTINA RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2003

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT CHRISTINA RIVER DATUM				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT MILES)	DEPTH (FEET)
ENTRANCE CHANNEL TO THE UPPER END OF THE TURNING BASIN	34.9	34.3	34.8	9-03	500-340	0.70	38
THENCE TO THE LOBDELL CANAL TURNING BASIN (OPPOSITE TERMINAL WHARF)	35.0 / 34.9	24.3 / 35.3	30.7 / 35.6	9-03	400 / 320	0.33 / 0.34	35 / 38

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12312 NM 1/04

CHRISTINA RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2003

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT CHRISTINA RIVER DATUM				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT MILES)	DEPTH (FEET)
ENTRANCE CHANNEL TO THE UPPER END OF THE TURNING BASIN	34.9	34.3	34.8	9-03	500-340	0.70	38
THENCE TO THE LOBDELL CANAL TURNING BASIN (OPPOSITE TERMINAL WHARF)	35.0 / 34.9	24.3 / 35.3	30.7 / 35.6	9-03	400 / 320	0.33 / 0.34	35 / 38

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18444 NM 1/04

EVERETT HARBOR AND SNOHOMISH RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE TO SETTLING BASIN	12.6	11.9	13.0	2-99, 5-03	150-425	1.1	15
SETTLING BASIN	11.3	10.1	9.4	2-99, 5-03	700	0.2	20
SETTLING BASIN TO R.R. BRIDGE	7.4	5.3	4.5	2-99, 5-03	150	2.2	8
R.R. BRIDGE TO OPPOSITE WEYERHAUSER CO. (48°00'27.0"N, 122°10'41.0"W)	7.2	7.0	7.0	2-99, 5-03	150	0.7	8
WEYERHAUSER CO. TO OPPOSITE 19TH ST. (47°59'29.0"N 122°10'42.0"W)	9.0	7.7	6.3	2-99, 5-03	150	1.1	8

NOTE: THE PROJECT WIDTH IS 100 FEET AT THE BRIDGES.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18587 NM 1/04

COOS BAY AND ISTHMUS SLOUGH CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE COPRS OF ENGINEERS - SURVEYS TO SEP 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE RANGE	39	39	39	9-03	---	1.9	47-37
ENTRANCE RANGE AND TURN	39	46	32	8-03	300-1050	0.5	37
INSIDE RANGE	38	38	38	8-03	300	0.6	37
COOS BAY RANGE	36	37	37	8,9-03	300	1.6	37
EMPIRE RANGE	36	37	38	9-03	300	1.3	37
LOWER JARVIS RANGE	38	37	35	9-03	300	0.8	37
JARVIS TURN	42	39	36	9-03	300	0.5	37
UPPER JARVIS RANGE	33	34	34	9-03	300-700	1.9	37
NORTH BEND LOWER RANGE	39	38	35	9-03	400	0.4	37
NORTH BEND RANGE	33	37	36	10-02,3-03	400	0.9	37
NORTH BEND UPPER RANGE	36	38	37	3-03	400	0.6	37
LOWER TURNING BASIN	37	38	38	3-03	400-900	0.3	37
FERNDALE LOWER RANGE	39	39	39	3-03	400	0.4	37
FERNDALE TURN	37	38	38	3-03	400	0.2	37
FERNDALE UPPER RANGE	35	37	38	3-03	400	0.7	37
MARSHFIELD RANGE	37	37	36	10-02,3-03	400	0.4	37
MARSHFIELD RANGE TO ISTHMUS SLOUGH	37	37	32	3-03	150-750	0.9	37
ISTHMUS SLOUGH	19	20	19	4-85	150	2.0	22

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION